

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1. (CURRENTLY AMENDED) High data rate inter-satellite communications links method for a plurality of satellites comprising providing, for each satellite, an ultrafast time hopping wireless satellite communications link of an allowed bandwidth, in which data is transmitted using individual packets or pulses and pulses in a sequence of such packets or pulses, causing said individual packets or pulses to be short in duration so that the individual packets are pulsed and signal energy is spread over the over said allowed bandwidth substantially simultaneously and instantaneously.

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Claim 2. (ORIGINAL) The invention defined in Claim 1 wherein a time hopping sequential code is used to position the said packets or pulses precisely in sequence thereby providing optimum use of frequency space and also providing noninterfering transmission channels due to the orthogonality of the coding scheme used.

Claim 3. (ORIGINAL) The invention defined in Claim 1  
wherein the ultrashort nature of the individual packets or pulses

used permits the time duration of a frame to be divided into very many microintervals of time in which the signal occurs.

Claim 4. (ORIGINAL) The invention defined in Claim 3  
wherein said division into very many microintervals in a frame to  
permit the availability of as many possible coding schemes as many  
non-interfering transmission channels.